

**Lactose**

**Intended Use**

It is used in Molecular Biology.

**Storage and Stability**

Store dehydrated medium below 30°C in tightly closed container. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

**Note:** TSE/BSE certificate is available on request.

**Directions**

Refer to the final concentration in the formula of the medium being prepared.

**Quality Control**

<b>Test</b>	<b>Specification</b>
Appearance	White or almost white crystalline powder
Solubility	Freely but slowly soluble in water, practically insoluble in ethanol (95%) & (96%)
Colour and Clarity of prepared medium	The solution is clear and not more intensely coloured than reference solution by 7.
Absorbance- At 400NM	<= 0.040
Absorbance - At 210-220NM	<= 0.250
Absorbance - At 270-300NM	<= 0.070
Acidity & Alkalinity	<= 0.40
Residue on Ignition /Sulphated ash	<= 0.10
Heavy Metals	<= 5.0 ppm
Identification – A- By IR	To comply
Identification B- By TLC	To comply
Identification D- Water	To comply
Loss on Drying	<= 0.50
Arsenic	<= 1 ppm

**Microbial Contamination**

Total aerobic micrbial count	<=100/g
Escherichia coli	Absent/10 g
Salmonella	Absent/10 g
Shigella	Absent/10 g

**Particle size distribution**

Percent on 75 Mesh	86%
Percent on 180 Mesh	100%
Specific Optical Rotation	Between +54.4° to +55.9°
Bulk density (Untapped)	About 0.46 g/mL
Bulk density (100 Tapped)	About 0.80 g/mL

**Reference**

1. Data on file: Microexpress®, A Division of Tulip Diagnostics (P) Ltd.

**Product Presentation:**

<b>Cat No.</b>	<b>Product description</b>	<b>Pack Size</b>
202120340500	Lactose	500 g
202120342500	Lactose	2.5 k
202120349925	Lactose	25 k (Bag)
202120349825	Lactose	25 k (Drum)

**Disclaimer**

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.

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